

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm - SEMESTER-V • EXAMINATION – SUMMER 2022

Subject Code: BP502TP**Date: 02/06/2022****Subject Name: Pharmacology – II****Time: 02:30pm to 05:30pm****Total Marks: 80****Instructions:**

1. Question -1 is compulsory to attempt.
2. Attempt any 04 questions from Question 2 to 7.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks.

- Q.1** Answer the following questions. (1 mark each) 16
- I) Define bioassay.
 - II) Give the name of anticoagulant substance which one is naturally found in liver.
 - III) Define the term autacoid.
 - IV) Timolol is an example of which category of drug ?
 - V) Give the name of two drugs which is used in gout.
 - VI) Write the mechanism of action of thiazides.
 - VII) What are the two main hormones secreted by Thyroid gland?
 - VIII) An autoimmune disease of the thyroid tissue is called
 - IX) Which hormone is a major contributor to the symptoms of inflammation?
 - X) The risk factors for type 2 diabetes mellitus include.
 - XI) This is _____ disease involves a long-term endocrine disorder in which the adrenal glands do not produce enough steroid hormones
 - XII) What Are the Types of Arrhythmias?
 - XIII) Drug not used in Prinzmetal Angina ?
 - a. Propranolol
 - b. Verapamil
 - c. Nitrates
 - d. Isosorbidedinitrate
 - XIV) Celecoxib inhibit _____ enzyme to give analgesic action.
 - XV) Give the name of oral contraceptives.
 - XVI) Which receptor is inhibited by Montelukast?
- Q.2** (a) Classify anti-hypertensive agents. 06
 (b) Give the mechanism of action and adverse effect of atorvastatin. 05
 (c) Classify drugs used in angina. Write pharmacology of nitrates. 05
- Q.3** (a) Classify NSAIDs. Write mechanism of action of aspirin. 06
 (b) Write a note on oral hypoglycemic drugs. 05
 (c) Classify antiarrhythmic agents. Write a note on Quinidine. 05
- Q.4** (a) Write a note on plasma volume expanders. 06
 (b) Differentiate between Fibrinolytic and Anti-platelet agents with suitable examples. 05
 (c) What are autacoids? Write a note on H1 receptor antagonist. 05
- Q.5** (a) Write a note on cardiac glycosides. 06
 (b) Explain in brief about bioassay of oxytocin and vasopressin. 05
 (c) Write therapeutic uses and adverse effects of corticosteroids. 05

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| Q. 6 | (a) | Write a note on DMARDs. | 06 |
| | (b) | Write a note on synthesis, storage and secretion of thyroid hormones. Enlist anti thyroid drugs. | 05 |
| | (c) | Write a note on anti-rheumatoid drugs. | 05 |
| Q.7 | (a) | Classify 5-HT receptors. Write a note on its distribution and functional role | 06 |
| | (b) | Explain the pathophysiological role of histamine. | 05 |
| | (c) | Classify diuretics. Write mechanism of action and adverse effects of thiazide diuretics. | 05 |
